

# **Department of Energy**

### Ohio Field Office Fernald Environmental Management Project P. O. Box 538705 Cincinnati, Ohio 45253-8705 (513) 648-3155



JUL 17 2002

Mr. James A. Saric, Remedial Project Manager United States Environmental Protection Agency Region V-SRF-5J 77 West Jackson Boulevard Chicago, Illinois 60604-3590 DOE-0588-02

Mr. Tom Schneider, Project Manager Ohio Environmental Protection Agency 401 East 5<sup>th</sup> Street Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT FOR THE PERIOD OF JUNE 1, 2002 THROUGH JUNE 30, 2002 AND QUARTERLY REPORT FOR THE PERIOD OF APRIL 1, 2002 THROUGH JUNE 30, 2002 INCLUDING EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT

This letter transmits the Consolidated Consent Agreement/Federal Facility Compliance Agreement/Federal Facility Agreement/Remedial Investigation/Feasibility Study/Consent Decree Monthly Report for the period of June 1, 2002 through June 30, 2002 and Quarterly Report for the period of April 1, 2002 through June 30, 2002. This report is formatted to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to J. A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under the FEMP Legal Agreements," dated January 16, 1996, and agreed to by the United States Environmental Protection Agency (USEPA) and Ohio Environmental Protection Agency (OEPA).

JUL 17 2062

Mr. James A. Saric Mr. Tom Schneider -2-

DOE-0588-02

If you have any questions, please contact me at (513) 648-3139.

Sincerely,

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FEMP:Reising

Johnny W. Reising Fernald Remedial Action Project Manager

my Porsing

**Enclosures: As Stated** 

cc w/enclosures:

N. Hallein, EM-31/CLOV

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#### cc w/o enclosures:

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#### Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from April 1, 2002 through June 30, 2002 and anticipated work for the period of July 1, 2002 through July 31, 2002. The monthly and quarterly reports have been revised to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to J. A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under the FEMP Legal Agreements", dated January 16, 1996, and agreed to by USEPA and OEPA.

The Department of Energy - Fernald, has given direction to utilize the submittal of the Quarterly Integrated Environmental monitoring Plan (IEMP) reports to satisfy the effluent radionuclide reporting requirements of the Consolidated Consent Agreement/Federal Facility Compliance Agreement/Federal Facility Agreement/Remedial Investigation/Feasibility Study/Consent Decree Quarterly Report.

### OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

#### April 2002

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Loaded 7,752 tons of material from waste pits
  - Shipped 63 railcars (UT56) of material for disposal at Envirocare

#### May 2002

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Loaded 10,763 tons of material from waste pits
  - Shipped 118 railcars (UT57 and UT58) of material for disposal at Envirocare

#### June 2002

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Loaded 15,398 tons of material from waste pits
  - Shipped 126 railcars (UT59 and UT60) of material for disposal at Envirocare

- Enforceable To Be Milestones Completed
  - None
- Work To Be Initiated/Continued/Completed
  - Load 12,052 tons of material from waste pits
  - Ship 120 railcars (UT61 and UT62) of material for disposal at Envirocare

OPERABLE UNIT 2 - ON-SITE DISPOSAL FACILITY AND SOIL CHARACTERIZATION AND EXCAVATION PROJECT (Additional OU2 soils-related activities reported under OU5/Soils Characterization and Excavation Project)

#### April 2002

- Enforceable Milestones Completed
  - On-Site Disposal Facility (OSDF)
    - None
  - Soil Characterization and Excavation Project (SCEP)
    - None
  - Work Initiated/Continued/Completed
    - On-Site Disposal Facility
      - Began and completed remodeling of North Bay at RIMA for soil relocation
      - Continued site preparation work for Liners 4 and 5
      - Completed Access Control Facility project
      - Completed Emergency Access Road construction
      - Completed Access Control Relocation OMTA Area
      - Completed construction of Valve House 6 road
      - Began installation of Soil/Water Status Nest PVC housings
      - Completed Construction Quality Control (CQC) Summary of Results for Borrow Sub Areas Pre-conformance Sampling and Testing
      - Completed closure of North Access Road
      - Completed construction of LCS, LDS, and RLCS Cell 5 Extensions pipelines
      - Began OSDF placement of material in Cells 2 and 3 on April 4, 2002
      - Continued work on Title III/CQC Services Request for proposal for negotiation with GeoSyntec
      - Received Cell 1 Final Cover Red Line Drawings from IT Corporation and began review
      - Began design on Borrow Area Excavation Plan for Cell 7 liner and Cells 4 through 7 caps
    - Soil Characterization and Excavation Project (SCEP)
      - Completed planting in Radium Hotspot
      - Began site preparation on Borrow Area
      - Completed Area 2, Phase II Title I Design
      - Continued Area 3B/4B/5 Title I Design
      - Began sampling beneath Plant 6 Pad on April 11, 2002, as part of the 3A/4A Subsurface Predesign

- Completed Area 6 (Solid Waste landfill and Fire Training Facility) Title I
   Design
- Continued excavation of above WAC soil at Incinerator Pad (10D)
- Continued Direct Push Aquifer Sampling
- Continued sampling of the Pit 4 Cap material in Waste Pits Area
- Continued concrete breaking/crushing in Area 3A
- Completed scanning of Area 2, Phase I
- Continued certification sampling in Area 2, Phase I
- Began Real Time sampling in Area 2, Phase II, east of Haul Road
   Quadrants 1 and 4W
- Continued additional Predesign sampling in Area 7
- Continued Construction Laydown Yard
- Began excavation of Basin #4 Southern Waste Unit (SWU)
- Completed Plant 6 Sump work ...
- Continued site preparation work in Area 3A and 4A
- Submitted final Deer Plan to DOE on April 15, 2002
- Continued design for Northern Pines Restoration
- Completed Sludge Sampling from Area 7 Trench on April 16, 2002
- Began Radium (Ra) Hotspot Delineation in Area 2, Phase II
- Completed sampling in Facilities Footprint for Area 7
- Began Area 2, Phase II Title II Design
- Began Area 6 (Solid Waste Landfill and Fire Training Facility) Title II
   Design
- Completed excavation of Area 2, Phase I Perimeter Area (including Basin 2 and East/West portion of Haul Road)
- Completed modifications of the Wheel Wash
- Completed Draft Area 7 Excavation and Precertification Strategy, Phase I
- Began preparation of Implementation Plans for Area 2, Phase II, Area 6
   Solid Waste Landfill/Fire Training Facility and Areas 3B/4B/5
- Surveyed all sample points in the Solid Waste Landfill and Fire Training Facility
- Began excavation of Basin 4 in Southern Waste Units
- Completed Area 2, Phase II Sampling and Analysis at the Arsenic Hot
   Spot
- Began Area 4B Potentially Characteristic Areas West of the Pilot Plant sampling
- Submitted second round of Response to Comments for Area 3A/4A
   Excavation Characterization PSP



#### May 2002

- Enforceable Milestones Completed
  - On-Site Disposal Facility (OSDF)
    - None
  - Soil Characterization and Excavation Project (SCEP)
    - None
- Work Initiated/Continued/Completed
  - On-Site Disposal Facility
    - Continued remodeling of North Bay at RIMA for soil relocation
    - Continued site preparation work for Cells 4 and 5 liner
    - Began installation of Soil/Water Status Nest PVC Housings
    - Completed relocating power to Air Monitoring Cells 2 and 3
    - Completed Emergency Access Road construction
    - Began receiving geosynthetic for Cells 4 and 5 liner
    - Continued working on Contractors Laydown Area
    - Initiated construction of New Borrow Area Haul Road
    - Began fill for Cell 4 liner Sub-Grade, working on the east berm of Cells 4 and 5
    - Continued removing topsoil for Cell Liners 4 and 5
    - Completed excavation of perimeter ditch and installing pipe south of Cell
    - Continued Sub-Grade for Cell 5 Liner
    - Began site preparation on Borrow Area
    - Continued placement of impacted materials in Cells 2 and 3
  - Soil Characterization and Excavation Project (SCEP)
    - Continued Area 3B/4B/5 Title I Design
    - Continued Sampling beneath Plant 6 Pad as part of 3A/4A Subsurface Predesign
    - Continued excavation of above WAC soil at Incinerator Pad (10D)
    - Continued Direct Push Aquifer sampling
    - Continued sampling of the Pit 4 cap material in Waste Pits Area
    - Continued Concrete Breaking/Crushing in Area 3A and Area 4A
    - Completed certification sampling in Area 2, Phase I
    - Began Real Time Analyses in Area 2, Phase II, east of Haul Road in Quadrants 1 and 4W
    - Continued sampling in Area 7, Facilities Footprint and K-65 Trench
    - Completed excavation of Basin #4 Southern Waste Units
    - Began Real Time analyses of eastern portions of Area 5

- Completed Physical Sampling of Radium Hot Spot near Paddy's Run in Area 2, Phase II
- Continued design for Northern Pines Restoration
- Began Area 2, Phase II, Title II Design
- Began Area 6 (Solid Waste Landfill and Fire Training Facility) Title II
   Design
- Began excavation of southeast corner of Plant 9 Above WAC Area
- Completed Arsenic Area excavation
- Began Sampling for Area 4B Pilot Plant Sump (PSP)
- Completed excavation of Basin 4, Area 2, Phase I
- Continued restoration work in SWU
- Initiated disking and seeding in Northern Pines
- Began Lime Sludge Ponds excavation
- Began Area 6 Solid Waste Landfill and Fire Training Facility Sampling
- Submitted final Deer Management Plan to NRTs and Agencies on May 9, 2002, received OEPA approval on May 23, 2002
- Began excavation of Area 7, Phase I
- Submitted Restoration Design for SWU to NRTs and Agencies on May 9, 2002, received OEPA approval on May 23, 2002
- Completed planting in Radium Hot Spot

#### June 2002

- Enforceable Milestones Completed
  - On-Site Disposal Facility (OSDF)
    - None
  - Soil Characterization and Excavation Project (SCEP)
    - Submitted Draft Integrated Remedial Design package for Area 2, Phase II on June 28, 2002; meeting the July 1, 2002 due date
  - Work Initiated/Continued/Completed
  - On-Site Disposal Facility
    - Completed remodeling of North Bay at RIMA for Soil Relocation
    - Completed receiving Geosynethics for Cell 4 and 5 Liners
    - Continued working on Contractors Laydown Area
    - Began and Completed construction of new Borrow Area Haul Road
    - Continued placement of impacted materials in Cells 2 and 3
    - Began placement of Clay Liner for Cells 4 and 5
    - Began Borrow Area Clay Screening

- Continued site preparation for Cell 4 liner
- Completed conduit installation and electrical for Cell 1 cap monitoring instrumentation

#### Soil Characterization and Excavation Project (SCEP)

- Continued Area 3B/4B/5 Title I Design
- Continued sampling beneath Plant 6 Pad as part of 3A/4A Subsurface Predesign
- Continued excavation of above WAC soil at Incinerator Pad (10D)
- Continued Direct Push Aquifer sampling
- Continued sampling of the Pit 4 Camp material in Waste Pits Area
- Continued Concrete Breaking/Crushing in Areas 3A and 4A
- Completed sampling in Area 7, Facilities Footprint and K-65 Trench
- Completed excavation of Basin #4, Southern Waste Units
- Continued site preparation work in Areas 3A and 4A
- Continued design for Northern Pines Restoration
- Began Area 2, Phase II Title II Design
- Began Area 6 (Solid Waste Landfill and Fire Training Facility) Title II
   Design
- Continued restoration work in Southern Waste Units
- Completed seeding in Northern Pines
- Began Lime Sludge Ponds excavation
- Began Area 6 Solid Waste Landfill sampling
- Began and completed Fire Training Facility Sampling
- Began excavation in Area 7, Phase I
- Continued maintenance of Organic Soil stockpile
- Completed seeding and erosion matting in Basin 4 Area for Southern Waste Units Restoration project
- Completed Baseline Ecological Monitoring in Perimeter Areas
- Completed 3-D Soil Contamination Model of Area 4B
- Issued the Area 7 Excavation Plan, Phase I
- Began excavation of K-65 Trench
- Completed Area 7, High Nitrate Tank Demolition (Above and Below Grade)
- Began Area 7, Phase I Pre-certification PSP
- Began Area 8, Phase III Pre-certification PSP
- Completed Radium Hot Spot Sampling and Real Time Scan in Area 2, Phase II on June 4, 2002
- Completed Area 4B Pilot Plant sampling on June 12, 2002
- Submitted Area 3B/4B/5 General Area PSP on June 20, 2002

- Enforceable Milestones To Be Completed
  - On-Site Disposal Facility (OSDF)
    - None
  - Soil Characterization and Excavation Project (SCEP)
    - None
- Work To Be Initiated/Continued/Completed
  - On-Site Disposal Facility
    - Provide CQC Services for Borrow Area excavation/screening
    - Complete construction of Construction Laydown Area
    - Continue receiving stone for Liners 4 and 5
    - Continue clay excavation/screening in Borrow Area
    - Complete sub-grade for Cells 4 and 5 liner
    - Begin Part 2 of remodeling of RIMIA for OSDF/SDFP relocation
    - Continue placement of impacted materials in Cells 2 and 3
    - Begin modifications in Contractor's Administration Area
    - Complete placement of Clay liner for Cells 4 and 5
    - Begin Geosynethics (GCL/GML) in Cell 4
  - Soil Characterization and Excavation Project (SCEP)
    - Continue Area 2, Phase II Title II Design
    - Complete Area 3B/4B/5 Title I Design
    - Continue Area 6 (Solid Waste Landfill and Fire Training Facility) Title II
       Design
    - Complete Incinerator Pad (10D) above WAC excavation
    - Complete restoration design for Northern Pines
    - Begin excavation of southeast corner of Plant 9 above WAC area
    - Continue breaking concrete in Areas 3A and 4A
    - Continue Plant 6 sump work
    - Continue Area 6 Solid Waste Landfill sampling
    - Continue Lime Sludge Ponds excavation
    - Complete Spring Planting in the Southern Waste Units Restoration project
    - Complete Restoration Grading and Stabilization in Southern Waste Units
    - Complete sampling beneath Plant 6 Pad as part of 3A/4A Excavation Control
    - Continue excavation in Area 7, Phase I
    - Begin Area 3B/4B/5 Title II Design

- Complete seeding in Northern Woodlots
- Begin accelerated design for Borrow Area
- Begin sampling for Area 3B/4B/5 AWAC PSP

#### **OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT**

#### **April 2002**

- Enforceable Milestones Completed
  - Submitted Laboratory Complex Implementation Plan
  - Work Initiated/Continued/Completed
    - Plant 6
      - Continued closure documentation and demobilization
    - Multi-Complex
      - Continued building closure, glovebag removal, removal of asbestos, purging of equipment and systems, removal of equipment and piping, lead removal, and interior transite removal in Building 2A
      - Continued asbestos abatement and equipment/system removal in Building 8H
    - Building 53A
      - Begin work in area of Building 53A, Safety and Health Building; air gap pipe bridge east side, establish staging/laydown area and gravel, begin asbestos abatement.
      - Begin removal of atrium glass, install out building protection, and removal of glass windows on first floor
    - Building 64/65
      - Begin mobilization in area of Buildings 64/65
    - Miscellaneous Structures
      - Continued D&D activities on component 18M and 34C
    - Facilities Shutdown
      - Performed miscellaneous maintenance activities
      - Removed diesel fuel from behind and evacuated propane and air lines in the area of Building 53A

#### May 2002

- Enforceable Milestones Completed
  - Completion of Field Activities for Miscellaneous Structure 34C
  - Completion of Field Activities for Miscellaneous Structure 18M
- Work Initiated/Continued/Completed
  - Plant 6
    - Continued closure reports and documentation
  - Multi-Complex
    - Continued work in area of Building 2A
  - Building 64/65
    - Continued work in area of Buildings 64/65, establishing construction laydown area, removing interior transite, locking down the area outside and inside and removing Building 64 windows
  - Building 53A
    - Installed out building protection, removed equipment, power, materials and removed lead flashing from x-ray room
  - Miscellaneous Structures
    - Completed D&D activities on Components 18M and 34C
  - Facilities Shutdown
    - Prepared for mercury removal; electricalswitches in Building 2A contain mercury

#### June 2002

- Enforceable Milestones Completed
  - Submitted Plant 1, Phase II Complex Implementation Plan
  - Submitted Component 18M and 34C project Completion Report
- Work Initiated/Continued/Completed
  - Plant 6
    - Continued closure reports and documentation
    - Began Plant 6 pipe Bridge D&D Activities
  - Multi-Complex
    - Continued work in area of Building 2A

- Building 53A
  - Began removal of Structural steel and concrete masonry in Building 53A
- Building 64/65
  - Completed structural demolition of Buildings 64/65 and began loading debris in ROBs
- Pilot Plant
  - Began mobilization, installing fencing, setting up 5-plex Control Point
     Trailer, demobilized T-131 Break Trailer
- Facilities Shutdown
  - Completed steam and condensate isolation activities and chemical piping isolation activity at 2<sup>nd</sup> and "B" Street and isolated power to Hut 6
  - Began Excavation Area 4A utility isolation activities

- Enforceable Milestones To Be Completed
  - None
- Work To Be Initiated/Continued/Completed
  - Plant 6
    - Complete closure documentation
    - Complete Plant 6 Pipe Bridge D&D activities
  - Multi-Complex
    - Continue work in area of Building 2A
  - Building 53A
    - Continue structural steel and concrete masonry removal
  - Building 64/65
    - Complete demobilization activities
  - Pilot Plant
    - Continue mobilization activities including installing perimeter fencing and installation of Break Room trailer and Control Point trailers
  - Facilities Shutdown
    - Complete isolation activities for Excavation Area 3A
    - Continue excavation Area 4A utility isolation

### **OPERABLE UNIT 4 - SILOS PROJECT**

#### April 2002

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Continued Silos 1 and 2 Accelerated Waste Retrieval (AWR) Project construction activities; continued erection of Transfer Tank Area (TTA) Tanks and installation of pipe rack foundations; continued structural construction on Radon Control System (RCS) Air Handling Building
  - Completed preparation of draft Silo 3 Remedial Design (RD) package and issued to DOE and Fluor for internal review
  - Issued Silos 1 and 2 Preliminary Design Package to DOE and the Critical Analysis Team (CAT) for formal review
  - Initiated compilation of revised RD package for the AWR project
  - Presented update on Silos Projects status at April Cleanup Progress Briefing

#### May 2002

- Enforceable Milestones Completed
  - Submitted the draft revised Silo 3 Remedial Design (RD) Package to the
     Agencies for review on May 13, 2002, meeting the August 22, 2002 milestone
  - Submitted the draft Silos 1 and 2 Accelerated Waste Retrieval (AWR) Project RD Package, Revision 2, to the Agencies for review on May 31, 2002, satisfying a June 3, 2002 milestone
  - Submitted a letter proposing a milestone date of August 1, 2003 for submittal
    of the Remedial Action (RA) Work Plan for waste retrieval operations to the
    Agencies, for their review, on May 31, 2002, satisfying a June 3, 2002
    milestone
- Work Initiated/Continued/Completed
  - Continued AWR Project construction
  - Initiated preparation of the revised Proposed Plan (PP) for Silo 3
  - Submitted Civil/Site preparation Construction Package to the Agencies for their information
  - Prepared and reviewed responses to DOE and Critical Analysis Team (CAT)
     comments on the Silos 1 and 2 Preliminary Design Package

#### June 2002

- Enforceable Milestones Completed
  - None
  - Work Initiated/Continued/Completed
    - Conducted internal, DOE, and CAT review of Silo 3 Mechanical package
    - Responded to OEPA comments on the Silo 3 Civil/Site preparation Construction information package; conducted a tour of the area with OEPA personnel
    - Initiated site preparation excavation around Silo 4 in preparation for Silo reinforcing construction activities
    - Completed soil sampling and defined excavation boundaries for excavation and disposition in preparation for Silos 1 and 2 construction activities
    - Completed removal of piping and soil sediment from the K-65 pipe trench
    - Presented an update on Silos project issues at the FCAB meeting on June 15, 2002
    - Continued Silos 1 and 2 Accelerated Waste Retrieval (AWR) construction activity in preparation for the scheduled initiation of Radon Control System (RCS)

- Enforceable Milestones To Be Completed
  - None
- Work To Be Initiated/Continued/Completed
  - Submit Silos 1 and 2 Warehouse and Remediation Facility Foundation construction information packages to Agencies for information
  - Await comments on the Silos 1 and 2 AWR Project Remedial Design Package
  - Initiate Cold Loop Mockup testing of waste retrieval equipment for the AWR Project in Oak Ridge
  - Award design support and fabrication contracts for Silos 1 and 2 Clarifier
     System and Product Mixer packages
  - Continue Silos 1 and 2 Accelerated Waste Retrieval (AWR) construction activity in preparation in preparation for the scheduled startup of RCS Phase 1 Operation

#### **OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT**

#### April 2002

- Enforceable Milestones Completed
  - Submitted monthly NPDES Discharge Monitoring Report for March 2002 to the Ohio EPA on April 19, 2002
  - Met the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work Initiated/Continued/Completed
  - Continued work on geoprobing in the off-property portion of the South Plume.
  - Completed screen and well design for three replacement injection wells on April 18, 2002
  - Completed a Project Specific Plan (PSP) to investigate uranium partitioning on the sediments in the Great Miami Aquifer. Submitted the PSP to the Agencies on April 15, 2002
  - Submitted the NPDES Permit Renewal Application to Ohio EPA on April 30, 2002

#### May 2002

- Enforceable Milestones Completed
  - Submitted monthly NPDES Discharge Monitoring Report for April 2002 to the OEPA on May 20, 2002
  - Met the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work Initiated/Continued/Completed
  - Submitted the March 2002 Monthly Re-Injection Operating Report on May 15,
     2002 to the DOE for transmittal to the Agencies
  - Submitted the February 2002 Monthly Re-Injection Operating Report on May 1,
     2002 to the DOE for transmittal to the Agencies
  - Completed construction of Waste Storage Area Extraction System Phase I and South Field Extraction System - Supplemental Well; turned over to Operations on May 6, 2002
  - Off-Property South Plume Area Geoprobing; The fifteen originally planned locations were completed as of May 13, 2002. An updated access agreement with the landowner for additional locations has been obtained. One of four planned additional locations was completed as of May 31, 2002
  - Submitted the South Field Phase II Design Report to the DOE, this was transmitted to the Agencies on May 16, 2002

#### June 2002

- Enforceable Milestones Completed
  - Submitted the monthly NPDES Discharge monitoring Report to the OEPA on June 19, 2002
  - Submitted the NPDES Noncompliance Report for May to the OEPA on June 19, 2002
  - Met the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work Initiated/Continued/Completed
  - Submitted the PSP for the installation of the South Field Phase II Module Extraction/Re-Injection Wells and Additional South Field monitoring Wells to DOE on June 10, 2002 for transmittal to the Agencies; DOE forwarded to the Agencies on June 10, 2002
  - Completed core drilling of wells in the South Field Extraction System Phase II
     Module on June 21, 2002
  - Completed core drilling of wells in the South Field Extraction System Phase II
     Module on June 21, 2002
  - Completed drilling and installation of injection Wells 8A and 9A on June 20, 2002
  - Submitted, to DOE, the Responses to Agency Comments on the Project Specific Plan for the Analysis of How Uranium is Sorbed and Partitioned on Great Miami Aquifer Matrix Sediments on June 26, 2002

- Enforceable Milestones To Be Completed
  - Submit monthly NPDES Discharge monitoring Report to the OEPA
  - Meet the monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work To Be Initiated/Continued/Completed
  - Continue to perform maintenance/rehabilitation on injection and extraction wells
  - Continue work on the South Field Phase II Extraction System
  - Begin work on installation of extraction and injection wells to support the South Field Phase II Extraction System

#### WASTE MANAGEMENT

#### **April 2002**

- Enforceable Milestones Completed
  - None
- Work Initiated/Continued/Completed
  - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
    - Consolidated aqueous wastes from four AWWT 1013 containers readied for AWWT treatment
  - Hazardous Waste Project
    - Began preparing for Heritage shipment on May 8, 2002
    - Heritage packaged drums from Blue Area maintenance, property and the Labs
    - Moved chemicals from Building 79 to Building 30/45 Interim Layout Area
       (ILA) for inclusion in heritage shipment
  - Inorganic Treatment Project
    - Continued construction on a Mixed Waste Processing Enclosure in Building 79 to process/package Inorganic Treatment Project waste
  - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
    - Shipped Batch 11 (Oily Phase) to the TSCA Incinerator on April 11, 2002
    - Received and forwarded supplemental lab sample analysis results needed before completing and submitting Batch 12 application to TSCA Incinerator and the State of Tennessee
  - Organic Treatment Project
    - Continued RTR of Group B
    - Continued characterization of Group B
  - Waste Minimization/Pollution Prevention
    - Continued monitoring new dumpsters and locations
    - Completed gathering data for Butler County 2001 Industrial Solid Waste Survey

#### May 2002

- Enforceable Milestones Completed
  - Dispositioned all product nuclear material offsite on May 15, 2002; meeting the June 1, 2002 milestone date
- Work Initiated/Continued/Completed
  - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
    - Consolidated aqueous wastes from 18 AWWT 1013 containers readied for AWWT treatment
    - Continued AWWT Liquids Punch List
  - Hazardous Waste Project
    - Completed a two container Safety Kleen shipment on May 7, 2002
    - Completed a 27 container Heritage shipment on May 8, 2002
    - Completed Clean Side Storage Locker inspection in preparation for Electrical Waste Shipment
    - Completed shipment of 4 pallets of light tubes to Superior Services
  - Inorganic Treatment Project
    - Continued construction on a Mixed Waste Processing Enclosure in Building 79 to process/package Inorganic Treatment Project waste
  - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
    - Submitted Batch 12 application to TSCA Incinerator and the State of Tennessee for approval
    - Continued construction of Mixed Waste Processing Enclosure
  - Organic Treatment Project
    - Continued RTR of Group B
    - Established Vacuum Thermal Desorption (VTD) project team and participated in VTD alignment meeting
  - Waste Minimization/Pollution Prevention
    - Completed Semi-annual Report and distribution was done electronically

#### June 2002

- Enforceable Milestones Completed
  - None

#### Work Initiated/Continued/Completed

- Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
  - Consolidated aqueous waste from 1 AWWT 1007 container, 1 AWWT 1014 container, 27 AWWT 1015 containers and 14 AWWT 1020 release memo and WWDR approved containers 917,274 pounds) readied for AWWT treatment
- Hazardous Waste Project
  - Shipped 9 pallets of lead acid batteries to American Compressed Steel on June 18, 2002
  - Completed inventory of the Hazardous Waste Storage Locker
  - Requested DOT Pathways and SC&PCRD for the inventory of crushed fluorescent light bulbs, Ni-cad batteries, lithium batteries, PCB light ballasts, non-PCB light ballasts, and atomic absorption instrument lamps.
  - Initiated an inventory of hazardous and non-hazardous chemicals that will be dispositioned through Heritage
- Inorganic Treatment Project
  - Developing Request for Proposal for treatment of hazardous and mixed waste (lead contaminated)
- Incinerator Liquids (Liquid Mixed Waste Bulking Project)
  - Participated in TSCA Incinerator Generators meeting at Oak Ridge,
     Tennessee on June 4, 2002
  - Received approval from TSCA Incinerator for Batch 12
- Organic Treatment Project
  - Continued to work on Vacuum Thermal Desorption (VTD) proposals
- Sample Disposition
  - Initiated RTR of 140 containers with project inventory
  - Reviewing project inventory for alternate disposal options
- Waste Minimization/Pollution Prevention
  - Gave Harrison High School group 1,221 pounds of aluminum cans for recycling
  - Initiated shipment of toner cartridges for recycling
  - Initiated an inventory list for Property of unused non-hazardous chemicals to be sent to Rumpke

- Enforceable Milestones To Be Completed
  - None
- Work To Be Initiated/Continued/Completed
  - Hazardous Waste Project Advanced Waste Water Treatment (AWWT) Liquids
    - Complete AWWT Liquids Punch List
  - Hazardous Waste Project
    - Receive the inventory of the chemicals that need to be dispositioned by Heritage
    - Work with Property, Maintenance and Land Management on receiving accountability and responsibility for the Hazardous Waste Storage Lockers (MS 8 & MS 14) and Sealand (W191474).
  - Inorganic Treatment Project
    - Complete MEF verifications for all released ITP campaigns and update SWIFTS
  - Incinerator Liquids (Liquid Mixed Waste Bulking Project)
    - Await approval of application from State of Tennessee for Batch 12
  - Sample Disposition
    - Review inventories for accelerated disposition
    - Continue to RTR 140 drums within the project inventory
  - Waste Minimization/Pollution Prevention
    - Complete shipment of toner cartridges for recycling
    - Complete Rumpke profiles and characterization activities for chemicals being dispositioned at Rumpke
    - Initiate cabinet relocations for the recycle toner cartridges

# **ENCLOSURES A & B**

# EFFLUENT AND RADON DATA ARE NOW REPORTED IN THE IEMP SUBMITTAL

# **ENCLOSURE C**

# REMOVAL ACTION STATUS REPORT

Note: All Removal Action except 3, 9, 12, 17, 26 and 27 are completed and closed. Removal Action 3, 9, 12, 17, 26 and 27 are Programmatic Removal Actions and work continues under them. All documentation for work done this quarter under these Programmatic Removal Actions is located in the Post-Rod files. Gradually work performed under these actions is being phased out and being done pursuant to appropriate Remedial Actions.

# CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/ FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT FOR THE PERIOD JUNE 1, 2002 THROUGH JUNE 30, 2002, AND QUARTERLY REPORT FOR THE PERIOD APRIL 1, 2002 THROUGH JUNE 30, 2002 INCLUDING ANTICIPATED WORK FOR THE PERIOD JULY 1, 2002 THROUGH JULY 31, 2002

REMOVAL ACTION NAME	#	STATUS	CLOSURE DATE	SCOPE
Extraction of Water Under FEMP Buildings AKA: Plant 6 Contaminated Perched Water	1	Closed	September 13, 1995	Pump water from extraction wells underneath Plants 2/3, 6, 8, and 9. Treat extracted water for volatile organic chemicals and uranium removal before discharge
Waste Pit Area Runoff Control	2	Closed	July 2, 1992	Collect and treat contaminated storm water run-off from the waste pit area
South Plume	3	Closed, transferred to Post-ROD	May 22, 1997	Collect and treat contaminated storm water from waste pit area, Install new alternate water supply, pump an discharge groundwater from South Plume, Install and operate interim Advanced Waste Water Treatment System, Conduct groundwater monitoring and institutional controls, conduct groundwater modeling and geochemical investigation
Silo 1 and 2	4	Closed	May 17, 1994	Install bentonite cap to reduce and monitor radon emissions, provide follow-on monitoring
K-65 Decant Sump Tank	5	Closed	March 5, 1993	Periodically remove liquid from K-65 decant sump tank
Waste Pit 6 - Exposed Material	6	Closed	March 25, 1992	Eliminate potential airborne contamination by resubmerging exposed pit material
Plant One Pad Continuing Release	.7	Closed	February 16, 1995	Implement run-on/off control, install new pad, and upgrade existing Plant 1 Storage Pad
Inactive Flyash Piles/ South Field Area	8	Closed	December 23, 1991	Install plastic chain link barrier and post warning signs
Removal of Waste Inventory	9	Closed - Transferred to Post-ROD	May 22, 1997	Disposition of low-level waste off-site
Active Flyash Pile Controls	10	Closed	May 16, 1997	Complete interim surface stabilization and complete active Flyash pile controls
Pit 5 Experimental Treatment Facility (ETS)	, 11	Closed	April 22, 1992	Remove contents, structure, and filter material. Backfill and cap with clay cover
Safe Shutdown	12	Closed - Transferred to Post-ROD	May 22, 1997	Remove uranium and other material from former processing equipment and ship material and equipment off-site
Plant 1 Ore Silos	13	Closed	November 6, 1995	Dismantle fourteen ore silos and their support structures

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# CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/ FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT FOR THE PERIOD JUNE 1, 2002 THROUGH JUNE 30, 2002, AND QUARTERLY REPORT FOR THE PERIOD APRIL 1, 2002 THROUGH JUNE 30, 2002 INCLUDING ANTICIPATED WORK FOR THE PERIOD JULY 1, 2002 THROUGH JULY 31, 2002

REMOVAL ACTION NAME	#	STATUS	CLOSURE DATE	SCOPE
Contaminated Soils Adjacent to Solid Waste Incinerator at the Sewage Treatment Plant	14	Closed	January 3, 1995	Isolate or remove and dispose of contaminated soils from the vicinity of the sewage treatment plant
Scrap Metals Pile	15	Closed	November 14, 1994	Disposition of LLW Ferrous/non-ferrous scrap metal, Containerize and dispose of scrap copper
Collect Uncontrolled Production Area Runoff - Northeast	16	Closed	May 22, 1997	Collect storm water run-off from the northeast perimeter of the former production area in the Storm Water Retention Basin
Improved Storage of Soil and Debris	17	Closed - Transferred to Post-ROD	May 22, 1997	Improve storage of existing and future generated soils and debris
Control Exposed Material in Pit 5	18	Closed	May 13, 1993	Eliminate potential airborne contamination by re-submerging exposed pit material
Plant 7 Dismantling	19	Closed	August 18, 1995	Dismantle and dispose of the Plant 7 structure
Uranyl Nitrate Neutralization Project	20	Closed	January 16, 1997	Neutralize, filter and package UNH inventory
Silo 3	21	Closed	February 24, 1993	Mitigate the potential release of hazardous waste material by covering and sealing dust collector hopper, removing dust collector, and capping and covering obvious release pathways
Waste Pit Area Containment Improvement	22	Closed	August 1, 1993	Stabilize south barrier of Pit 4; regarding drainage ditches along Pits 3, 4, 5, and 6: and resurface road between Pits 3, 4, 5, and 6
Inactive Flyash Pile	23	Closed	June 29, 1992	Conduct field investigation to identify locations requiring material removal
Pilot Plant Sump	24	Closed	January 14, 1994	Remove liquid and sludge from the sump
Nitric Acid Rail Car	25	Closed	November 12, 1993	Remove residual contents from tank car and decontaminate and dispose of tank car



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REMOVAL ACTION NAME  Asbestos Removal	26	STATUS  Closed - Transferred to Post-ROD	CLOSURE DATE May 22, 1997	SCOPE		
				Mitigate the potential for contaminant and migration of asbestos fibers	. •	
Management of Contaminated Structures	27	Closed - Transferred to Post-ROD	May 22, 1997	Management of contaminated structures	iA:	



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